UCDAVIS
BIOLOGY ACADEMIC SUCCESS CENTER

Molecular and Medical Microbiology, B.S.

(2022-2023)

Major: 105-115 units
College of Biological Sciences
Graduation Requirements: Min. 180 units total, including 64 upper division units; Min. 2.0 GPA req. in major, depth, and cumulative
Residence Requirement: 35 of last 45 units must be completed at UC Davis
All major courses must be taken for a letter grade *(excl. courses offered as P/NP)*

NOTE: MIC courses are in the process of transitioning to MMG courses.

Preparatory Requirements (60-70)

___ **BIS 2ABCD Biological Sciences**
- ___ 5 BIS 2A (F, W, S)
- ___ 5 BIS 2B (F, W, S)
- ___ 5 BIS 2C (F, W, S)
- ___ 3 BIS 2D (W, S)

___ **CHE 2ABC General Chemistry**
(CHE 4ABC is also accepted)
- ___ 5 CHE 2A (F, W)
- ___ 5 CHE 2B (W, S)
- ___ 5 CHE 2C (F, S)

___ **CHE 8AB <u>or</u> CHE 118ABC Organic Chemistry**
- ___2 CHE 8A (F, S)
- ___4 CHE 8B (F, W)

<u>OR</u>

- ___4 CHE 118A (F, W)
- ___4 CHE 118B (W, S)
- ___4 CHE 118C (F, S)

___ **MAT 17ABC <u>or</u> MAT 21AB Calculus for Bio/Med**
- ___4 MAT 17A or MAT 21A (F, W, S)
- ___4 MAT 17B or MAT 21B (F, W, S)
- ___4 MAT 17C (F, W, S)

MAT 21C recommended if taking MAT 21 series

___ **PHY 7ABC General Physics**
(PHY 9ABC is also accepted)
- ___4 PHY 7A (F, W, S)
- ___4 PHY 7B (F, W, S)
- ___4 PHY 7C (F, W, S)

___ **1 MIC 91 or 191 (S)**

Depth Requirements (45)

___ **4 STA 100 Applied Statistics for Bio. Sci. (F, W, S)**

___ **4 BIS 101 Genes and Expression (F, W, S)**

___ **3 BIS 102 Structure and Function of Biomolecules (F, W, S)**
___ **3 BIS 103 Bioenergetics and Metabolism (F, W, S)**
<u>OR</u>
___ **3 BIS 105* Biomolecules and Metabolism (F, W, S)**
**If do not take BIS 102 AND 103*

___ **3 MIC 102 Introductory Microbiology (F, W, S)**

___ **3 MIC 104L General Microbiology Laboratory (F, W)**

___ **3 MIC 105 Microbial Diversity (W)**

___ **3 MIC 105L Microbial Diversity Laboratory (W, S)**

___ **3 MIC 111 Human Microbiology (F)**

___ **3 Molecular Microbiology**
Choose at least one course from MIC 115, 150, or 170

___ **3 Virology**
Choose at least one course from MIC 162 or PMI 128

___ **3 Immunology**
Choose at least one course from MMI 188A or 188B, or PMI 126

___ **Restricted Elective Units (Choose additional course work from the following approved options in the UCD catalog or upper division courses in related fields relevant to the student's interest chosen in consultation with a BASC advisor to achieve a total of 45 or more units.)**

Note: Although a course might be listed in more than one category, that course may satisfy only one requirement in the entire major.

For detailed course information such as course titles, descriptions, and prerequisites, please see the UC Davis General Catalog. For current course offerings, please use Schedule Builder. Please note course offerings and degree requirements are subject to change; please consult with a BASC advisor to ensure graduation requirements are fully met.